Author Index

Abd El Rehim, S.S., see Zaky, A.M. Abdel Halim, W.S., and A.S. Shalabi, Surface morphology and interaction between water	221 (2004) 349	Chakraborty, B.R., Characterization of inter- faces in nanoscale semiconductor devices by optimization of depth resolution in SIMS	
and MgO, CaO and SrO surfaces. Periodic		depth profiling	221 (2004) 143
HF and DFT calculations	221 (2004) 53	Chaoui, Z., and N. Bouarissa, Implantation	
Akiba, S., see Sakata, O.	221 (2004) 450	profiles for low energy electrons in metals:	
Akl, A.A., Microstructure and electrical prop-		scaling properties	221 (2004) 114
erties of iron oxide thin films deposited by		Chen, M., see Wang, J.	221 (2004) 272
spray pyrolysis	221 (2004) 319	Chen, W., see He, J.	221 (2004) 87
Anderson, C.A., see Borcia, G.	221 (2004) 203	Chen, X.W., see Peng, D.Q.	221 (2004) 259
Aparna, Y., see Panwar, O.S.	221 (2004) 392	Chen, Y., see Yin, YS.	221 (2004) 384
Assaf, F.H., see Zaky, A.M.	221 (2004) 349	Cho, H.K., J.Y. Lee and J.Y. Leem, Strain relaxation behavior of the InGaN/GaN mul-	
Bai, X.D., see Peng, D.Q.	221 (2004) 259	tiple quantum wells observed by transmis-	221 (2004) 200
Balderas-Navarro, R.E., see Medel-Ruiz, C.I.	221 (2004) 48	sion electron microscopy	221 (2004) 288
Balooch, M., see Trelenberg, T.W.	221 (2004) 364	Choi, WK., see Lee, W.	221 (2004) 32
Baosen, X., see Shouzhen, Z.	221 (2004) 110	Choi, Y.S., J.H. Kang, H.Y. Kim, B.G. Lee,	
Baquey, Ch., see Duncan, A.C.	221 (2004) 93	C.G. Lee, S.K. Kang, Y.W. Jin, J.W. Kim,	
Bhattacharyya, R., see Panwar, O.S.	221 (2004) 392	J.E. Jung and J.M. Kim, A simple structure and fabrication of carbon-nanotube field	
Bi, Z., W. Liao and L. Qi, Wettability alteration		emission display	221 (2004) 370
by CTAB adsorption at surfaces of SiO2		Chua, D.H.C., K.B.K. Teo, T.H. Tsai, W.I.	221 (2004) 370
film or silica gel powder and mimic oil		Milne, D. Sheeja, B.K. Tay and D. Schnei-	
recovery	221 (2004) 25	der, Correlation of surface, mechanical and	
Blattner, A.J., and B.W. Wessels, Ferromagnet-		microproperties of tetrahedral amorphous	
ism in (In, Mn)As alloy thin films grown by		carbon films deposited under different mag-	
metalorganic vapor phase epitaxy	221 (2004) 155	netic confinement conditions	221 (2004) 455
Bonse, J., KW. Brzezinka and A.J. Meixner,		Cuiguo, L., see Shouzhen, Z.	221 (2004) 433
Modifying single-crystalline silicon by femtosecond laser pulses: an analysis			
by micro Raman spectroscopy, scanning		Dang, H., see Gu, G.	221 (2004) 129
laser microscopy and atomic force micro-		Datta, S., see Klusek, Z.	221 (2004) 120
scopy	221 (2004) 215	de Vos, S.A., see Nguyen, T.P.	221 (2004) 330
Bor, Z., see Hopp, B.	221 (2004) 437	Deng, H., W. Hu, X. Shu and B. Zhang, Ana-	
Borcia, G., C.A. Anderson and N.M.D. Brown,		hair embedded-atom method approach to	
The surface oxidation of selected polymers		studying the surface segregation of Al-Mg	221 (2004) 400
using an atmospheric pressure air dielectric		alloys	221 (2004) 408
barrier discharge. Part 1	221 (2004) 203	Deqing, W., see Ziyuan, S.	221 (2004) 62
Bouarissa, N., see Chaoui, Z.	221 (2004) 114	Dinh, L.N., see Trelenberg, T.W.	221 (2004) 364
Brioude, A., P. Vincent, C. Journet, J.C. Plenet		Döring, A., see Hopp, B.	221 (2004) 437
and S.T. Purcell, Synthesis of sheathed		Drouet, M., see Fouquet, V.	221 (2004) 248
carbon nanotube tips by the sol-gel tech-		Duncan, A.C., S. Lazare and Ch. Baquey, Use	
nique	221 (2004) 4	of biological nanoprobes for the character-	
Brown, N.M.D., see Borcia, G.	221 (2004) 203	ization of micropatterned surfaces obtained	221 /20045 03
Brynsari, V.I., see Tolstoy, V.P.	221 (2004) 197	by ultraviolet laser lithography	221 (2004) 93
Brzezinka, KW., see Bonse, J.	221 (2004) 215	Flores-Camacho, J.M., see Medel-Ruiz, C.I.	221 (2004) 48
61 85 6 16	221 (2004) 12	Fouquet, V., L. Pichon, M. Drouet and A. Straboni,	221 (2004) 248
Carlson, D.E., see Ganguly, G.	221 (2004) 13	Plasma assisted nitridation of Ti-6Al-4V	221 (2004) 249

Fujihara, S., T. Schneller and R. Waser, Inter-		Kang, J.H., see Choi, Y.S. Kang, S.K., see Choi, Y.S.	221 (2004) 370 221 (2004) 370
facial reactions and microstructure of			
BaTiO ₃ films prepared using fluoride pre-	221 (2004) 170	Kang, T.S., see Kim, S.S. Kanjilal, A., see Joshi, R.K.	221 (2004) 231 221 (2004) 43
cursor method	221 (2004) 178		
Fujita, D., see Xiao, Z.	221 (2004) 160	Khan, M.A., see Panwar, O.S.	221 (2004) 392
		Kim, H.Y., see Choi, Y.S. Kim, J., see Teo, M.	221 (2004) 370 221 (2004) 340
Gallardo, S.L., see Medel-Ruiz, C.I.	221 (2004) 48	Kim, J.M., see Choi, Y.S.	
Ganguly, G., R.S. Oswald and D.E. Carlson,			221 (2004) 370
Optimization of the stabilized performance		Kim, J.W., see Choi, Y.S. Kim, S.S., J.H. Moon, BT. Lee, KS. Sohn,	221 (2004) 370
of amorphous silicon solar cells deposited			
at high growth rates by de-coupling of gas		T.S. Kang and J.H. Je, Microstructures	
and superstrate temperatures	221 (2004) 13	of pulsed laser deposited Eu doped	
Gaona-Couto, A., see Medel-Ruiz, C.I.	221 (2004) 48	Y ₂ O ₃ luminescent films on Si(0 0 1) sub-	221 (2004) 221
Grange, P., see Jung, S.M.	221 (2004) 167	strates	221 (2004) 231
Gu, G., Z. Zhang and H. Dang, Preparation and		Klusek, Z., S. Pierzgalski and S. Datta, Insu-	
characterization of hydrophobic organic-		lator-metal transition on heavily reduced	
inorganic composite thin films of PMMA/		TiO ₂ (1 1 0) surface studied by high tem-	
SiO ₂ /TiO ₂ with low friction coefficient	221 (2004) 129	perature-scanning tunnelling spectroscopy	*** ****
Guan, F., see Wang, J.	221 (2004) 272	(HT-STS)	221 (2004) 120
Gulina, L.B., see Tolstoy, V.P.	221 (2004) 197	Kobayashi, H., see He, C.	221 (2004) 444
		Kokavecz, J., see Hopp, B.	221 (2004) 437
Hamada, E., see He, C.	221 (2004) 444	Kondo, K., see He, C.	221 (2004) 444
He, C., E. Hamada, T. Suzuki, T. Kumaki, H.	231 (2001) 111	Konoplitska, O.P., see Puziy, A.M.	221 (2004) 421
Kobayashi, K. Kondo and Y. Ito, Pulsed		Korotchenkov, G.S., see Tolstoy, V.P.	221 (2004) 197
slow-positron beam for polymer films	221 (2004) 444	Kresz, N., see Hopp, B.	221 (2004) 437
He, J., W. Chen, N. Xu, L. Li, X. Li and G. Xue,	221 (2004) 444	Kumaki, T., see He, C.	221 (2004) 444
SERS studies on the ordered structure of the			
surface of polypyrrole nanotubules	221 (2004) 87	Lastras-Martínez, A., see Medel-Ruiz, C.I.	221 (2004) 48
Holland, A., see Leech, P.W.	221 (2004) 302	Lastras-Martínez, L.F., see Medel-Ruiz, C.I.	221 (2004) 48
Hopp, B., N. Kresz, J. Kokavecz, T. Smausz, H.	221 (2004) 302	Lazare, S., see Duncan, A.C.	221 (2004) 93
Schieferdecker, A. Döring, O. Marti and Z.		Lee, B.G., see Choi, Y.S.	221 (2004) 370
Bor, Adhesive and morphological charac-		Lee, BT., see Kim, S.S.	221 (2004) 231
teristics of surface chemically modified		Lee, C.G., see Choi, Y.S.	221 (2004) 370
polytetrafluoroethylene films	221 (2004) 437	Lee, D.W., see Jung, Y.S.	221 (2004) 136
Hu, W., see Deng, H.	221 (2004) 408	Lee, J.Y., see Cho, H.K.	221 (2004) 288
Hwang, DK., see Lee, W.	221 (2004) 32	Lee, M., see Lee, W.	221 (2004) 32
Hwang, DR., See Lee, W.	221 (2004) 32	Lee, W., DK. Hwang, MC. Jeong, M. Lee,	
		MS. Oh, WK. Choi and JM. Myoung,	
Ito, Y., see He, C.	221 (2004) 444	Fabrication and properties of As-doped ZnO films grown on GaAs(0 0 1) substrates	
Je, J.H., see Kim, S.S.	221 (2004) 231	by radio frequency (rf) magnetron sputter-	
Jeon, D.Y., see Jung, Y.S.	221 (2004) 136	ing	221 (2004) 32
Jeong, MC., see Lee, W.	221 (2004) 32	Leech, P.W., G.K. Reeves, A. Holland and M.C.	
Jin, Y.W., see Choi, Y.S.	221 (2004) 370	Ridgway, The effect of Au and O implanta-	
Joshi, R.K., A. Kanjilal and H.K. Sehgal, Solu-		tion on the etch rate of CVD diamond	221 (2004) 302
tion grown PbS nanoparticle films	221 (2004) 43	Leem, J.Y., see Cho, H.K.	221 (2004) 288
Journet, C., see Brioude, A.	221 (2004) 4	Leitch, A.W.R., see van Wyk, E.	221 (2004) 415
Jung, J.E., see Choi, Y.S.	221 (2004) 370	Li, J., see Yin, YS.	221 (2004) 384
Jung, S.M., and P. Grange, Characterization of		Li, L., see He, J.	221 (2004) 87
the surface hydroxyl properties of sepiolite		Li, X., see He, J.	221 (2004) 87
and Ti(OH)4 and investigation of new prop-		Li, X.J., see Xu, X.Q.	221 (2004) 430
erties generated over physical mixture of		Li, Z., see Zhou, H.	221 (2004) 402
Ti(OH) ₄ -sepiolite	221 (2004) 167	Liao, W., see Bi, Z.	221 (2004) 25
Jung, Y.S., Study on texture evolution and		Lin, C.L., see Wan, Q.	221 (2004) 38
properties of silver thin films prepared by		Liu, J., see Sakata, O.	221 (2004) 450
properties of silver tilli fiffils bredaren ny	221 (2004) 281	Liu, X., see Wang, J.	221 (2004) 272
sputtering deposition	221 (2001) 201	Liu, X.Y., see Peng, D.O.	221 (2004) 259
sputtering deposition Jung, Y.S., D.W. Lee and D.Y. Jeon, Influence	223 (2007) 203	Liu, X.Y., see Peng, D.Q. Lu, X., T. Zheng, Z. Xia and D. Shen, Measured	221 (2004) 259
sputtering deposition	223 (2004) 203	Liu, X.Y., see Peng, D.Q. Lu, X., T. Zheng, Z. Xia and D. Shen, Measured stopping power for ¹⁶ O ions in Al, Cu and	221 (2004) 259

Marti, O., see Hopp, B.	221 (2004) 437	Reeves, G.K., see Leech, P.W.	221 (2004) 302
Matsuda, A., see Sakata, O.	221 (2004) 450	Ren, S., see Wang, J.	221 (2004) 272
Medel-Ruiz, C.I., A. Lastras-Martínez, R.E. Balderas-Navarro, S.L. Gallardo, V.H. Méndez-García, J.M. Flores-Camacho, A.		Ridgway, M.C., see Leech, P.W.	221 (2004) 302
Gaona-Couto and L.F. Lastras-Martínez, In		Sakata, O., MS. Yi, A. Matsuda, J. Liu, S.	
situ monitoring of the 2D–3D growth-mode		Sato, S. Akiba, A. Sasaki and M. Yoshi-	
transition in In _{0.3} Ga _{0.7} As/GaAs (0.0.1) by		moto, Structural analysis of NiO ultra-thin	
reflectance-difference spectroscopy	221 (2004) 48	films epitaxially grown on ultra-smooth	
Meixner, A.J., see Bonse, J.	221 (2004) 215	sapphire substrates by synchrotron X-ray	
Méndez-García, V.H., see Medel-Ruiz, C.I.	221 (2004) 213	diffraction measurements	221 (2004) 450
Milne, W.I., see Chua, D.H.C.	221 (2004) 455	Sasaki, A., see Sakata, O.	221 (2004) 450
Mitchell, K.A.R., see Teo, M.	221 (2004) 340	Sato, S., see Sakata, O.	221 (2004) 450
Mohamed, B.M., see Zaky, A.M.	221 (2004) 340	Satyanarayana, B.S., see Panwar, O.S.	221 (2004) 392
Mohan, S., see Singh, K.	221 (2004) 308	Saw, C.K., see Trelenberg, T.W.	221 (2004) 364
Molian, P., see Womack, M.	221 (2004) 99	Schieferdecker, H., see Hopp, B.	221 (2004) 437
Mondal, A., see Ram, S.	221 (2004) 237	Schneider, D., see Chua, D.H.C.	221 (2004) 455
Moon, J.H., see Kim, S.S.		Schneller, T., see Fujihara, S.	221 (2004) 178
	221 (2004) 231	Sehgal, H.K., see Joshi, R.K.	221 (2004) 43
Müllegger, S., O. Stranik, E. Zojer and A. Winkler, Adsorption, initial growth and		Shalabi, A.S., see Halim, W.S. Abdel	221 (2004) 53
		Sheeja, D., see Chua, D.H.C.	221 (2004) 455
desorption kinetics of p-quaterphenyl on	221 /2004 104	Shen, D., see Lu, X.	221 (2004) 10
polycrystalline gold surfaces	221 (2004) 184	Shen, H., see Xu, X.Q.	221 (2004) 430
Myoung, JM., see Lee, W.	221 (2004) 32	Shih, I., see Zhu, W.W.	221 (2004) 358
Nguyen, T.P., and S.A. de Vos, An investigation		Shivaprasad, S.M., see Panwar, O.S.	221 (2004) 392
into the effect of chemical and thermal		Shouzhen, Z., X. Baosen and L. Cuiguo, The	,,
treatments on the structural changes of poly-		photoemissive effect of the ITO-Cs thin	
(3,4-ethylenedioxythiophene)/polystyrene-		film	221 (2004) 110
sulfonate and consequences on its use on		Shu, X., see Deng, H.	221 (2004) 408
indium tin oxide substrates	221 (2004) 330	Singh, K., and S. Mohan, Kinetic studies of	221 (2001) 100
maran in oarde substrates	221 (2004) 230	the sucrose adsorption onto an alumina	
Oh, MS., see Lee, W.	221 (2004) 32	interface	221 (2004) 308
Ohgi, T., see Xiao, Z.	221 (2004) 160	Smausz, T., see Hopp, B.	221 (2004) 437
Onishi, K., see Xiao, Z.	221 (2004) 160	Smith, G.C., see Fulton, W. Stephen	221 (2004) 69
Oswald, R.S., see Ganguly, G.	221 (2004) 13	Sohn, KS., see Kim, S.S.	221 (2004) 231
		Song, W.L., see Wang, A.H.	221 (2004) 293
Panwar, O.S., Y. Aparna, S.M. Shivaprasad, M.A.		Stephen Fulton, W., G.C. Smith and K.J. Titch-	max (moor) are
Khan, B.S. Satyanarayana and R. Bhattachar-		ener, Interfacial microanalysis of rubber-	
yya, XPS and XAES studies of as grown and		tyre-cord adhesion and the influence of	
nitrogen incorporated tetrahedral amorphous		cobalt	221 (2004) 69
carbon films deposited by pulsed unfiltered		Straboni, A., see Fouquet, V.	221 (2004) 248
cathodic vacuum arc process	221 (2004) 392	Stranik, O., see Müllegger, S.	221 (2004) 184
Peng, D.Q., X.D. Bai, X.W. Chen, Q.G. Zhou,		Stuart, B.C., see Trelenberg, T.W.	221 (2004) 364
X.Y. Liu and R.H. Yu, Comparison of elec-		Suzuki, T., see He, C.	221 (2004) 444
trochemical behavior of zirconium and zir-		Suzuki, I., see He, C.	201 (2007) 777
caloy-4 implanted with Y and Ce ions	221 (2004) 259		
Pichon, L., see Fouquet, V.	221 (2004) 248	Tay, B.K., see Chua, D.H.C.	221 (2004) 455
Pierzgalski, S., see Klusek, Z.	221 (2004) 120	Teo, K.B.K., see Chua, D.H.C.	221 (2004) 455
Plenet, J.C., see Brioude, A.	221 (2004) 4	Teo, M., J. Kim, P.C. Wong, K.C. Wong and	
Poddubnaya, O.I., see Puziy, A.M.	221 (2004) 421	K.A.R. Mitchell, Investigations of inter-	
Purcell, S.T., see Brioude, A.	221 (2004) 4	faces formed between bis-1,2-(triethoxysi-	
Puziy, A.M., O.I. Poddubnaya, V.N. Zaitsev and	221 (2004) 4	lyl)ethane (BTSE) and aluminum after	
O.P. Konoplitska, Modeling of heavy metal		different Forest Product Laboratory pre-	
ion binding by phosphoric acid activated		treatment times	221 (2004) 340
carbon	221 (2004) 421	Titchener, K.J., see Fulton, W. Stephen	221 (2004) 69
Cartoni	221 (2009) 921	Tolstoy, V.P., L.B. Gulina, G.S. Korotchenkov	
Qi, L., see Bi, Z.	221 (2004) 25	and V.I. Brynsari, Synthesis of nanolayers	
VI. L., See DI. Z.	221 (2004) 23	hydroxo-(Sn,O,H,) and heteropoly-	
Ram, S., and A. Mondal, X-ray photoelectron		(H,PW,O.) compounds of hybrid-type on	
spectroscopic studies of Al ^{3*} stabilized		silica surfaces by successive ionic layer	
t-ZrO ₂ of nanoparticles	221 (2004) 237	deposition method	221 (2004) 197
varog or minopintaries	221 (2007) 231		

Author Index

Trelenberg, T.W., L.N. Dinh, C.K. Saw, B.C. Stuart and M. Balooch, Femtosecond		Xie, Y., and C. Yuan, Photocatalysis of neody- mium ion modified TiO ₂ sol under visible	
pulsed laser ablation of GaAs	221 (2004) 364	light irradiation	221 (2004) 17
Tsai, T.H., see Chua, D.H.C.	221 (2004) 455	Xu, J.R., see Xu, X.Q.	221 (2004) 430
Isai, I.II., see Chua, D.II.C.	221 (2001) 100	Xu, Kw., see Zhang, Jm.	221 (2004) 1
van Wyk, E., and A.W.R. Leitch, Oxygen pas-		Xu, L., see Wu, X.	221 (2004) 375
sivation and reactivation of interface states		Xu, M., see Xiao, Z.	221 (2004) 160
introduced during Schottky diode fabrica-		Xu, N., see He, J.	221 (2004) 87
tion on bulk n-type 6H-SiC	221 (2004) 415	Xu, X.Q., H. Shen, J.R. Xu and X.J. Li, Aqu-	
Vendan, M., see Womack, M.	221 (2004) 99	eous-based magnetite magnetic fluids sta-	
Vincent, P., see Brioude, A.	221 (2004) 4	bilized by surface small micelles of	
vincent, in see bittere, in		oleolysarcosine	221 (2004) 430
Wan, Q., T.H. Wang and C.L. Lin, Self-		Xue, G., see He, J.	221 (2004) 87
assembled Au-Si alloy nanocones: synth-			
esis and electron field emission character-		Yang, S., see Wang, J.	221 (2004) 272
istics	221 (2004) 38	Yi, MS., see Sakata, O.	221 (2004) 450
Wang, A.H., W.Y. Wang, C.S. Xie, W.L. Song	201 (2007) 50	Yin, YS., JD. Zhang, J. Li and Y. Chen,	
and D.W. Zeng, Microstructural character-		Mechanical properties of Fe ₃ Al/Al ₂ O ₃	
istics of Al-O ₃ -based refractory containing		composite graded coatings	221 (2004) 384
ZrO ₂ induced by CO ₂ laser melting	221 (2004) 293	Yoshimoto, M., see Sakata, O.	221 (2004) 450
Wang, J., S. Yang, X. Liu, S. Ren, F. Guan and	221 (2007) 275	Yu, R.H., see Peng, D.Q.	221 (2004) 259
M. Chen, Preparation and characterization		Yuan, C., see Xie, Y.	221 (2004) 17
of ZrO ₂ thin film on sulfonated self-		That, C., 500 May 1.	
assembled monolayer of 3-mercaptopropyl		Zaitsev, V.N., see Puziy, A.M.	221 (2004) 421
trimethoxysilane	221 (2004) 272	Zaky, A.M., F.H. Assaf, S.S. Abd El Rehim and	201 (0001) 101
Wang, T.H., see Wan, Q.	221 (2004) 38	B.M. Mohamed, Electrochemical beha-	
Wang, W.Y., see Wang, A.H.	221 (2004) 293	viour of silver in borate buffer solutions	221 (2004) 349
Waser, R., see Fujihara, S.	221 (2004) 178	Zeng, D.W., see Wang, A.H.	221 (2004) 293
Weng, D., see Wu, X.	221 (2004) 375	Zhang, B., see Deng, H.	221 (2004) 408
Wessels, B.W., see Blattner, A.J.	221 (2004) 155	Zhang, J., see Zhou, H.	221 (2004) 402
Winkler, A., see Müllegger, S.	221 (2004) 184	Zhang, JD., see Yin, YS.	221 (2004) 384
Womack, M., M. Vendan and P. Molian, Fem-	221 (2004) 104	Zhang, Jm., and Kw. Xu, Valence electron	BM1 (MOOT) 1001
tosecond pulsed laser ablation and deposi-		structure analysis of crystalline orientation	
tion of thin films of polytetrafluoroethylene	221 (2004) 99	in plasma-sprayed TiO ₂ coatings	221 (2004) 1
Wong, K.C., see Teo, M.	221 (2004) 340	Zhang, Z., see Gu, G.	221 (2004) 129
Wong, P.C., see Teo, M.	221 (2004) 340	Zheng, J., see Zhou, H.	221 (2004) 402
Wu, A., see Zhou, H.	221 (2004) 402	Zheng, T., see Lu, X.	221 (2004) 10
Wu, S., see Zhou, H.	221 (2004) 402	Zhimin, D., see Ziyuan, S.	221 (2004) 62
Wu, X., L. Xu and D. Weng, The thermal stability	221 (2004) 402	Zhou, H., Z. Li, A. Wu, J. Zheng, J. Zhang and	221 (2004) 02
and catalytic performance of Ce-Zr promoted		S. Wu, The influence of tip performance on	
* *	221 (2004) 375	scanning probe lithography	221 (2004) 402
Rh-Pd/γ-Al ₂ O ₃ automotive catalysts	221 (2004) 373	Zhou, Q.G., see Peng, D.Q.	221 (2004) 259
V:- 7 I V	221 (2004) 10	Zhu, W.W., S. Xiao and I. Shih, Field-effect	221 (2004) 239
Xia, Z., see Lu, X.	221 (2004) 10 221 (2004) 358	mobilities of polyhedral oligomeric silses-	
Xiao, S., see Zhu, W.W.	221 (2009) 330	quioxanes anchored semiconducting poly-	
Xiao, Z., M. Xu, T. Ohgi, K. Onishi and D.			221 (2004) 358
Fujita, Removal of Si(1 1 1) wafer surface		Tirgum S. W. Deging and D. Zhimin Surface	221 (2009) 330
etch pits generated in ammonia-peroxide	221 (2004) 140	Ziyuan, S., W. Deqing and D. Zhimin, Surface	221 (2004) 62
clean step	221 (2004) 160	strengthening pure copper by Ni-B coating	221 (2004) 62
Xie, C.S., see Wang, A.H.	221 (2004) 293	Zojer, E., see Müllegger, S.	221 (2004) 104

Subject Index

Abiation		Investigations of interfaces formed between bis-1,2-(triethoxysilyl)ethane (BTSE) and	
Femtosecond pulsed laser ablation of GaAs, T.W. Trelenberg, L.N. Dinh, C.K. Saw, B.C. Stuart and M. Balooch	221 (2004) 364	aluminum after different Forest Product Laboratory pre-treatment times, M. Teo, J. Kim, P.C. Wong, K.C. Wong and	
	221 (2007) 304	K.A.R. Mitchell	221 (2004) 340
Alkali metals		Analytic embedded-atom method approach to studying the surface segregation of Al-Mg alloys, H. Deng, W. Hu, X. Shu and B. Zhang	221 (2004) 408
The photoemissive effect of the ITO-Cs thin film, Z. Shouzhen, X. Baosen and L. Cui-		Aluminium Gold	
guo	221 (2004) 110		
Comparison of electrochemical behavior of zirconium and zircaloy-4 implanted with Y and Ce ions, D.Q. Peng, X.D. Bai,		Implantation profiles for low energy electrons in metals: scaling properties, Z. Chaoui and	
X.W. Chen, Q.G. Zhou, X.Y. Liu and		N. Bouarissa	221 (2004) 114
R.H. Yu	221 (2004) 259		
		Aluminium oxide	
Alloys			
		Microstructural characteristics of Al ₂ O ₃ -based refractory containing ZrO ₂ induced by CO ₂	
Self-assembled Au-Si alloy nanocones: synth- esis and electron field emission character-		laser melting, A.H. Wang, W.Y. Wang, C.S.	
istics, Q. Wan, T.H. Wang and C.L. Lin	221 (2004) 38	Xie, W.L. Song and D.W. Zeng Kinetic studies of the sucrose adsorption onto an	221 (2004) 293
Ferromagnetism in (In, Mn)As alloy thin films		alumina interface, K. Singh and S. Mohan	221 (2004) 308
grown by metalorganic vapor phase epi- taxy, A.J. Blattner and B.W. Wessels	221 (2004) 155	The thermal stability and catalytic performance	
Mechanical properties of Fe ₃ Al/Al ₂ O ₃ compo-	251 (2009) 133	of Ce-Zr promoted Rh-Pd/γ-Al ₂ O ₃ automo- tive catalysts, X. Wu, L. Xu and D. Weng	221 (2004) 375
site graded coatings, YS. Yin, JD. Zhang,		Mechanical properties of Fe ₃ Al/Al ₂ O ₃ compo-	221 (2004) 373
J. Li and Y. Chen Analytic embedded-atom method approach to	221 (2004) 384	site graded coatings, YS. Yin, JD. Zhang.	
studying the surface segregation of Al-Mg		J. Li and Y. Chen Structural analysis of NiO ultra-thin films epi-	221 (2004) 384
alloys, H. Deng, W. Hu, X. Shu and B.		taxially grown on ultra-smooth sapphire	
Zhang	221 (2004) 408	substrates by synchrotron X-ray diffraction	
		measurements, O. Sakata, MS. Yi, A. Matsuda, J. Liu, S. Sato, S. Akiba, A. Sasaki	
Alluminium		and M. Yoshimoto	221 (2004) 450
Measured stopping power for 16O ions in Al, Cu			
and Ag foils, X. Lu, T. Zheng, Z. Xia and D.		Arc evaporation	
Shen	221 (2004) 10		
X-ray photoelectron spectroscopic studies of Al ³ stabilized t-ZrO ₂ of nanoparticles,		XPS and XAES studies of as grown and nitro- gen incorporated tetrahedral amorphous	
S. Ram and A. Mondal	221 (2004) 237	carbon films deposited by pulsed unfiltered	
Plasma assisted nitridation of Ti-6Al-4V, V, Fouquet, L. Pichon, M. Drouet and A.		cathodic vacuum arc process, O.S. Panwar,	
Straboni	221 (2004) 248	Y. Aparna, S.M. Shivaprasad, M.A. Khan, B.S. Satyanarayana and R. Bhattacharyya	221 (2004) 302

Correlation of surface, mechanical and micro- properties of tetrahedral amorphous carbon films deposited under different magnetic confinement conditions, D.H.C. Chua,		layer of 3-mercaptopropyl trimethoxysi- lane, J. Wang, S. Yang, X. Liu, S. Ren, F. Guan and M. Chen Femtosecond pulsed laser ablation of GaAs,	221 (2004) 272
K.B.K. Teo, T.H. Tsai, W.I. Milne, D. Sheeja, B.K. Tay and D. Schneider	221 (2004) 455	T.W. Trelenberg, L.N. Dinh, C.K. Saw, B.C. Stuart and M. Balooch Adhesive and morphological characteristics of	221 (2004) 364
Arsenic		surface chemically modified polytetrafluor- oethylene films, B. Hopp, N. Kresz, J. Kokavecz, T. Smausz, H. Schieferdecker,	
Fabrication and properties of As-doped ZnO films grown on GaAs(0 0 1) substrates by radio frequency (rf) magnetron sputtering, W. Lee, DK. Hwang, MC. Jeong, M. Lee, MS. Oh, WK. Choi and JM. Myoung	221 (2004) 32	A. Döring, O. Marti and Z. Bor Structural analysis of NiO ultra-thin films epi- taxially grown on ultra-smooth sapphire substrates by synchrotron X-ray diffraction measurements, O. Sakata, MS. Yi, A. Matsuda, J. Liu, S. Sato, S. Akiba, A. Sasaki	221 (2004) 437
Ferromagnetism in (In, Mn)As alloy thin films grown by metalorganic vapor phase epi-		and M. Yoshimoto	221 (2004) 450
taxy, A.J. Blattner and B.W. Wessels	221 (2004) 155	Auger electron spectroscopy	
Atomic force microscopy		Femtosecond pulsed laser ablation of GaAs, T.W. Trelenberg, L.N. Dinh, C.K. Saw,	
Photocatalysis of neodymium ion modified TiO ₂ sol under visible light irradiation, Y. Xie and C. Yuan Fabrication and properties of As-doped ZnO	221 (2004) 17	B.C. Stuart and M. Balooch XPS and XAES studies of as grown and nitro- gen incorporated tetrahedral amorphous carbon films deposited by pulsed unfiltered cathodic vacuum arc process, O.S. Panwar,	221 (2004) 364
films grown on GaAs(0 0 1) substrates by radio frequency (rf) magnetron sputtering, W. Lee, DK. Hwang, MC. Jeong, M. Lee, MS. Oh, WK. Choi and JM.		Y. Aparna, S.M. Shivaprasad, M.A. Khan, B.S. Satyanarayana and R. Bhattacharyya	221 (2004) 392
Myoung Self-assembled Au-Si alloy nanocones: synth-	221 (2004) 32	Barium	
esis and electron field emission character- istics, Q. Wan, T.H. Wang and C.L. Lin Femtosecond pulsed laser ablation and deposi-	221 (2004) 38	Interfacial reactions and microstructure of BaTiO ₃ films prepared using fluoride precursor method, S. Fujihara, T. Schneller and R.	221 -2004 170
tion of thin films of polytetrafluoroethy- lene, M. Womack, M. Vendan and P. Molian Preparation and characterization of hydropho-	221 (2004) 99	Waser	221 (2004) 178
bic organic-inorganic composite thin films of PMMA/SiO ₂ /TiO ₂ with low friction		Boron	
coefficient, G. Gu, Z. Zhang and H. Dang Influence of dc magnetron sputtering para- meters on surface morphology of indium	221 (2004) 129	Surface strengthening pure copper by Ni-B coat- ing, S. Ziyuan, W. Deqing and D. Zhimin Electrochemical behaviour of silver in borate	221 (2004) 62
tin oxide thin films, Y.S. Jung, D.W. Lee and D.Y. Jeon	221 (2004) 136	buffer solutions, A.M. Zaky, F.H. Assaf, S.S. Abd El Rehim and B.M. Mohamed	221 (2004) 349
Removal of Si(1 1 1) wafer surface etch pits generated in ammonia-peroxide clean step, Z. Xiao, M. Xu, T. Ohgi, K. Onishi and D.		Biological materials	
Fujita Modifying single-crystalline silicon by femto- second laser pulses: an analysis by micro- Raman spectroscopy, scanning laser micro- scopy and atomic force microscopy, J.	221 (2004) 160	Use of biological nanoprobes for the character- ization of micropatterned surfaces obtained by ultraviolet laser lithography, A.C. Dun- can, S. Lazare and Ch. Baquey	221 (2004) 93
Bonse, KW. Brzezinka and A.J. Meixner Microstructures of pulsed laser deposited Eu doped Y ₂ O ₃ luminescent films on Si(0 0 1)	221 (2004) 215	Cadmium	
substrates, S.S. Kim, J.H. Moon, BT. Lee, KS. Sohn, T.S. Kang and J.H. Je Preparation and characterization of ZrO ₂ thin film on sulfonated self-assembled mono-	221 (2004) 231	Modeling of heavy metal ion binding by phos- phoric acid activated carbon, A.M. Puziy, O.I. Poddubnaya, V.N. Zaitsev and O.P. Konoplitska	221 (2004) 421

Calcium Chemical vapour deposition Optimization of the stabilized performance of Surface morphology and interaction between amorphous silicon solar cells deposited at water and MgO, CaO and SrO surfaces. high growth rates by de-coupling of gas and Periodic HF and DFT calculations, W.S. superstrate temperatures, G. Ganguly, R.S. Abdel Halim and A.S. Shalabi 221 (2004) 53 Oswald and D.E. Carlson 221 (2004) 13 The effect of Au and O implantation on the etch Carbon rate of CVD diamond, P.W. Leech, G.K. Reeves, A. Holland and M.C. Ridgway 221 (2004) 302 Synthesis of sheathed carbon nanotube tips by the sol-gel technique, A. Brioude, P. Vin-Clusters cent, C. Journet, J.C. Plenet and S.T. Purcell 221 (2004) 4 A simple structure and fabrication of carbon-Femtosecond pulsed laser ablation of GaAs, nanotube field emission display, Y.S. Choi, T.W. Trelenberg, L.N. Dinh, C.K. Saw, J.H. Kang, H.Y. Kim, B.G. Lee, C.G. Lee, B.C. Stuart and M. Balooch 221 (2004) 364 S.K. Kang, Y.W. Jin, J.W. Kim, J.E. Jung and J.M. Kim 221 (2004) 370 Cobalt XPS and XAES studies of as grown and nitrogen incorporated tetrahedral amorphous Modeling of heavy metal ion binding by phoscarbon films deposited by pulsed unfiltered phoric acid activated carbon, A.M. Puziy, cathodic vacuum arc process, O.S. Panwar, O.I. Poddubnaya, V.N. Zaitsev and O.P. Y. Aparna, S.M. Shivaprasad, M.A. Khan, Konoplitska 221 (2004) 421 B.S. Satyanarayana and R. Bhattacharyya 221 (2004) 392 Modeling of heavy metal ion binding by phos-Computer simulations phoric acid activated carbon, A.M. Puziy, O.I. Poddubnaya, V.N. Zaitsev and O.P. Surface morphology and interaction between 221 (2004) 421 Konoplitska water and MgO, CaO and SrO surfaces. Correlation of surface, mechanical and micro-Periodic HF and DFT calculations, W.S. properties of tetrahedral amorphous carbon Abdel Halim and A.S. Shalabi 221 (2004) 53 films deposited under different magnetic confinement conditions, D.H.C. Chua, K.B.K. Teo, T.H. Tsai, W.I. Milne, D. Copper 221 (2004) 455 Sheeja, B.K. Tay and D. Schneider Measured stopping power for 16O ions in Al, Cu and Ag foils, X. Lu, T. Zheng, Z. Xia and D. Catalysis 221 (2004) 10 Modeling of heavy metal ion binding by phos-Photocatalysis of neodymium ion modified phoric acid activated carbon, A.M. Puziy, TiO2 sol under visible light irradiation, Y. O.I. Poddubnaya, V.N. Zaitsev and O.P. 221 (2004) 17 Xie and C. Yuan Konoplitska 221 (2004) 421 The thermal stability and catalytic performance of Ce-Zr promoted Rh-Pd/7-Al2O3 automo-Depth profiling tive catalysts, X. Wu, L. Xu and D. Weng 221 (2004) 375 The thermal stability and catalytic performance Characterization of interfaces in nanoscale of Ce-Zr promoted Rh-Pd/7-Al₂O₃ automosemiconductor devices by optimization of tive catalysts, X. Wu, L. Xu and D. Weng 221 (2004) 375 depth resolution in SIMS depth profiling 221 (2004) 143

Ceramics

X-ray photoelectron spectroscopic studies of Al³⁺ stabilized t-ZrO₂ of nanoparticles, S. Ram and A. Mondal

221 (2004) 237

Doping effect

Microstructures of pulsed laser deposited Eu doped Y₂O₃ luminescent films on Si(0 0 1) substrates, S.S. Kim, J.H. Moon, B.-T. Lee, K.-S. Sohn, T.S. Kang and J.H. Je 221 (2004) 231

Cerium

The thermal stability and catalytic performance of Ce-Zr promoted Rh-Pd/γ-Al₂O₃ automotive catalysts, X. Wu, L. Xu and D. Weng

221 (2004) 375

Doping effects

Fabrication and properties of As-doped ZnO films grown on GaAs(0 0 1) substrates by

radio frequency (rf) magnetron sputtering, W. Lee, DK. Hwang, MC. Jeong, M. Lee,		L.B. Gulina, G.S. Korotchenkov and V.I. Brynsari	221 (2004) 197
MS. Oh, WK. Choi and JM. Myoung	221 (2004) 32	The surface oxidation of selected polymers using an atmospheric pressure air dielectric barrier discharge. Part I, G, Borcia, C.A.	221 (2004) 171
Electrical properties		Anderson and N.M.D. Brown Plasma assisted nitridation of Ti-6Al-4V, V.	221 (2004) 203
Study on texture evolution and properties of silver thin films prepared by sputtering deposition, Y.S. Jung Microstructure and electrical properties of iron	221 (2004) 281	Fouquet, L. Pichon, M. Drouet and A. Straboni Strain relaxation behavior of the InGaN/GaN	221 (2004) 248
oxide thin films deposited by spray pyro- lysis, A.A. Akl	221 (2004) 319	multiple quantum wells observed by trans- mission electron microscopy, H.K. Cho,	221 -2004 200
Field-effect mobilities of polyhedral oligo- meric silsesquioxanes anchored semicon- ducting polymers, W.W. Zhu, S. Xiao and		J.Y. Lee and J.Y. Leem Microstructural characteristics of Al ₂ O ₃ -based refractory containing ZrO ₂ induced by CO ₂	221 (2004) 288
I. Shih Oxygen passivation and reactivation of inter-	221 (2004) 358	laser melting, A.H. Wang, W.Y. Wang, C.S. Xie, W.L. Song and D.W. Zeng Microstructure and electrical properties of iron	221 (2004) 293
face states introduced during Schottky diode fabrication on bulk n-type 6H-SiC,		oxide thin films deposited by spray pyro- lysis, A.A. Akl	221 (2004) 319
E. van Wyk and A.W.R. Leitch	221 (2004) 415	Investigations of interfaces formed between bis-1,2-(triethoxysilyl)ethane (BTSE) and	221 (2001) 512
Electron bombardment Implantation profiles for low energy electrons		aluminum after different Forest Product Laboratory pre-treatment times, M. Teo, J. Kim, P.C. Wong, K.C. Wong and	
in metals: scaling properties, Z. Chaoui and N. Bouarissa	221 (2004) 114	K.A.R. Mitchell The thermal stability and catalytic performance	221 (2004) 340
Electron microscopy		of Ce-Zr promoted Rh-Pd/γ-Al ₂ O ₃ automo- tive catalysts, X. Wu, L. Xu and D. Weng Mechanical properties of Fe ₃ Al/Al ₂ O ₃ compo-	221 (2004) 375
Synthesis of sheathed carbon nanotube tips by the sol-gel technique, A. Brioude, P. Vin-		site graded coatings, YS. Yin, JD. Zhang, J. Li and Y. Chen	221 (2004) 384
cent, C. Journet, J.C. Plenet and S.T. Purcell Solution grown PbS nanoparticle films, R.K.	221 (2004) 4	Ellipsometry	
Joshi, A. Kanjilal and H.K. Sehgal SERS studies on the ordered structure of the surface of polypyrrole nanotubules, J. He,	221 (2004) 43	Wettability alteration by CTAB adsorption at surfaces of SiO_2 film or silica gel powder and	
W. Chen, N. Xu, L. Li, X. Li and G. Xue Femtosecond pulsed laser ablation and deposi- tion of thin films of polytetrafluoroethy- lene, M. Womack, M. Vendan and P. Molian	221 (2004) 87 221 (2004) 99	mimic oil recovery, Z. Bi, W. Liao and L. Qi Preparation and characterization of ZrO ₂ thin film on sulfonated self-assembled mono- layer of 3-mercaptopropyl trimethoxysi-	221 (2004) 25
Preparation and characterization of hydropho- bic organic-inorganic composite thin films of PMMA/SiO ₂ /TiO ₂ with low friction	221 (2004) 99	lane, J. Wang, S. Yang, X. Liu, S. Ren, F. Guan and M. Chen	221 (2004) 272
coefficient, G. Gu, Z. Zhang and H. Dang Influence of dc magnetron sputtering para-	221 (2004) 129	Epitaxy	
meters on surface morphology of indium tin oxide thin films, Y.S. Jung, D.W. Lee and D.Y. Jeon	221 (2004) 136	Structural analysis of NiO ultra-thin films epi- taxially grown on ultra-smooth sapphire	
Ferromagnetism in (In, Mn)As alloy thin films grown by metalorganic vapor phase epi-		substrates by synchrotron X-ray diffraction measurements, O. Sakata, MS. Yi, A. Matsuda, J. Liu, S. Sato, S. Akiba, A. Sasaki	
taxy, A.J. Blattner and B.W. Wessels Interfacial reactions and microstructure of BaTiO ₃ films prepared using fluoride pre-	221 (2004) 155	and M. Yoshimoto	221 (2004) 450
cursor method, S. Fujihara, T. Schneller and R. Waser	221 (2004) 178	Etching	
Synthesis of nanolayers hydroxo-(Sn ₁ O,H ₂) and heteropoly-(H ₁ PW,O ₂) compounds of hybrid-type on silica surfaces by successive		Removal of Si(1 1 1) wafer surface etch pits generated in ammonia-peroxide clean step, Z. Xiao, M. Xu, T. Ohgi, K. Onishi and D.	221 (2001) 1-0
ionic layer deposition method, V.P. Tolstoy,		Fujita	221 (2004) 160

	Dangeer	27002.0	875
The effect of Au and O implantation on the etch rate of CVD diamond, P.W. Leech, G.K. Reeves, A. Holland and M.C. Ridgway Europium Microstructures of pulsed laser deposited Eu	221 (2004) 302	Characterization of interfaces in nanoscale semiconductor devices by optimization of depth resolution in SIMS depth profiling. B.R. Chakraborty Femtosecond pulsed laser ablation of GaAs, T.W. Trelenberg, L.N. Dinh, C.K. Saw, B.C. Stuart and M. Balooch	221 (2004) 143 221 (2004) 364
doped Y ₂ O ₃ luminescent films on Si(0 0 1) substrates, S.S. Kim, J.H. Moon, BT. Lee, KS. Sohn, T.S. Kang and J.H. Je	221 (2004) 231	Germanium	
Evaporation		Characterization of interfaces in nanoscale semiconductor devices by optimization of depth resolution in SIMS depth profiling,	221 /2004) 142
Self-assembled Au-Si alloy nanocones: synth- esis and electron field emission character- istics, Q. Wan, T.H. Wang and C.L. Lin	221 (2004) 38	B.R. Chakraborty Gold	221 (2004) 143
Field emission Self-assembled Au-Si alloy nanocones: synthesis and electron field emission characteristics, Q. Wan, T.H. Wang and C.L. Lin A simple structure and fabrication of carbonnanotube field emission display, Y.S. Choi, J.H. Kang, H.Y. Kim, B.G. Lee, C.G. Lee, S.K. Kang, Y.W. Jin, J.W. Kim, J.E. Jung	221 (2004) 38	Self-assembled Au-Si alloy nanocones: synthesis and electron field emission characteristics, Q. Wan, T.H. Wang and C.L. Lin Adsorption, initial growth and desorption kinetics of p-quaterphenyl on polycrystalline gold surfaces, S. Müllegger, O. Stranik, E. Zojer and A. Winkler The effect of Au and O implantation on the etch rate of CVD diamond, P.W. Leech, G.K.	221 (2004) 38 221 (2004) 184
and J.M. Kim Fluorescence	221 (2004) 370	Reeves, A. Holland and M.C. Ridgway Hydrides	221 (2004) 302
Use of biological nanoprobes for the character- ization of micropatterned surfaces obtained by ultraviolet laser lithography, A.C. Dun- can, S. Lazare and Ch. Baquey	221 (2004) 93	Synthesis of nanolayers hydroxo-(Sn,O,H ₂) and heteropoly-(H ₂ PW,O ₂) compounds of hybrid-type on silica surfaces by successive ionic layer deposition method, V.P. Tolstoy, L.B. Gulina, G.S. Korotchenkov and V.I. Brynsari	221 (2004) 197
Strain relaxation behavior of the InGaN/GaN multiple quantum wells observed by transmission electron microscopy, H.K. Cho, J.Y. Lee and J.Y. Leem	221 (2004) 288	Hydrocarbon Kinetic studies of the sucrose adsorption onto an alumina interface, K. Singh and S. Mohan	221 (2004) 308
Gallium arsenide		Hydrocarbons	
Fabrication and properties of As-doped ZnO films grown on GaAs(0 0 1) substrates by radio frequency (rf) magnetron sputtering, W. Lee, DK. Hwang, MC. Jeong, M. Lee, MS. Oh, WK. Choi and JM. Myoung In situ monitoring of the 2D–3D growth-mode	221 (2004) 32	Wettability alteration by CTAB adsorption at surfaces of SiO ₂ film or silica gel powder and mimic oil recovery, Z. Bi, W. Liao and L. Qi Adsorption, initial growth and desorption kinetics of <i>p</i> -quaterphenyl on polycrystalline gold surfaces, S. Müllegger, O. Stranik.	221 (2004) 25
transition in In _{0.3} Ga _{0.7} As/GaAs (0 0 1) by reflectance-difference spectroscopy, C.I. Medel-Ruiz, A. Lastras-Martínez, R.E. Bal- deras-Navarro, S.L. Gallardo, V.H. Mén-		E. Zojer and A. Winkler Indium	221 (2004) 184
dez-García, J.M. Flores-Camacho, A. Gaona-Couto and L.F. Lastras-Martínez	221 (2004) 48	In situ monitoring of the 2D-3D growth-mode transition in In _{0.3} Ga _{0.7} As/GaAs (0.0.1) by	

reflectance-difference spectroscopy, C.I.		Ion bombardment	
Medel-Ruiz, A. Lastras-Martínez, R.E. Balderas-Navarro, S.L. Gallardo, V.H. Méndez-García, J.M. Flores-Camacho, A. Gaona-Couto and L.F. Lastras-Martínez Ferromagnetism in (In, Mn)As alloy thin	221 (2004) 48	Measured stopping power for ¹⁶ O ions in Al, Cu and Ag foils, X. Lu, T. Zheng, Z. Xia and D. Shen	221 (2004) 10
films grown by metalorganic vapor phase epitaxy, A.J. Blattner and B.W. Wes-		Ion implantation	
sels Strain relaxation behavior of the InGaN/GaN multiple quantum wells observed by trans- mission electron microscopy, H.K. Cho, J.Y. Lee and J.Y. Leem	221 (2004) 155 221 (2004) 288	Comparison of electrochemical behavior of zirconium and zircaloy-4 implanted with Y and Ce ions, D.Q. Peng, X.D. Bai, X.W. Chen, Q.G. Zhou, X.Y. Liu and	
Indium tin oxide		R.H. Yu The effect of Au and O implantation on the etch rate of CVD diamond, P.W. Leech, G.K.	221 (2004) 259
The photoemissive effect of the ITO-Cs		Reeves, A. Holland and M.C. Ridgway	221 (2004) 302
thin film, Z. Shouzhen, X. Baosen and L. Cuiguo	221 (2004) 110	Iron	
Influence of dc magnetron sputtering para- meters on surface morphology of indium tin oxide thin films, Y.S. Jung, D.W. Lee		Microstructure and electrical properties of iron oxide thin films deposited by spray pyro- lysis, A.A. Akl	221 (2004) 319
and D.Y. Jeon	221 (2004) 136	Mechanical properties of Fe ₃ Al/Al ₂ O ₃ compo- site graded coatings, YS. Yin, JD. Zhang,	221 (2001) 217
Infrared spectroscopy		J. Li and Y. Chen Aqueous-based magnetite magnetic fluids stabilized by surface small micelles of oleo-	221 (2004) 384
Preparation and characterization of hydro- phobic organic-inorganic composite thin films of PMMA/SiO ₂ /TiO ₂ with low fric- tion coefficient, G. Gu, Z. Zhang and H.		lysarcosine, X.Q. Xu, H. Shen, J.R. Xu and X.J. Li	221 (2004) 430
Dang	221 (2004) 129	Laser processing	
Synthesis of nanolayers hydroxo-(Sn ₁ O,H ₂) and heteropoly-(H,PW,O ₂) compounds of hybrid-type on silica surfaces by successive ionic layer deposition method, V.P. Tolstoy, L.B. Gulina, G.S. Korotchenkov and V.I.		Use of biological nanoprobes for the character- ization of micropatterned surfaces obtained by ultraviolet laser lithography, A.C. Dun- can, S. Lazare and Ch. Baquey	221 (2004) 93
Brynsari Preparation and characterization of ZrO ₂ thin film on sulfonated self-assembled mono- layer of 3-mercaptopropyl trimethoxysi-	221 (2004) 197	Modifying single-crystalline silicon by femto- second laser pulses: an analysis by micro Raman spectroscopy, scanning laser micro- scopy and atomic force microscopy, J.	201 (2017) 25
lane, J. Wang, S. Yang, X. Liu, S. Ren, F. Guan and M. Chen Aqueous-based magnetite magnetic fluids sta-	221 (2004) 272	Bonse, KW. Brzezinka and A.J. Meixner Microstructural characteristics of Al ₂ O ₃ -based refractory containing ZrO ₂ induced by CO ₂	221 (2004) 215
bilized by surface small micelles of oleo- lysarcosine, X.Q. Xu, H. Shen, J.R. Xu and X.J. Li	221 (2004) 430	laser melting, A.H. Wang, W.Y. Wang, C.S. Xie, W.L. Song and D.W. Zeng Femtosecond pulsed laser ablation of GaAs, T.W. Trelenberg, L.N. Dinh, C.K. Saw,	221 (2004) 293
Interfaces		B.C. Stuart and M. Balooch	221 (2004) 364
Characterization of interfaces in nanoscale		Lead	
semiconductor devices by optimization of depth resolution in SIMS depth profiling, B.R. Chakraborty	221 (2004) 143	Solution grown PbS nanoparticle films, R.K. Joshi, A. Kanjilal and H.K. Sehgal	221 (2004) 43
Oxygen passivation and reactivation of inter- face states introduced during Schottky diode fabrication on bulk n-type 6H–SiC,	221 (2009) 193	Modeling of heavy metal ion binding by phos- phoric acid activated carbon, A.M. Puziy, O.I. Poddubnaya, V.N. Zaitsev and O.P. Kono-	221 (2004) 43
E. van Wyk and A.W.R. Leitch	221 (2004) 415	plitska	221 (2004) 421

Luminescence		deras-Navarro, S.L. Gallardo, V.H. Mén- dez-García, J.M. Flores-Camacho, A.	
Fabrication and properties of As-doped ZnO films grown on GaAs(0 0 1) substrates by radio frequency (rf) magnetron sputtering,		Gaona-Couto and L.F. Lastras-Martínez Monte Carlo simulations	221 (2004) 48
W. Lee, DK. Hwang, MC. Jeong, M. Lee, MS. Oh, WK. Choi and JM. Myoung Microstructures of pulsed laser deposited Eu doped Y ₂ O ₃ luminescent films on Si(0 0 1)	221 (2004) 32	Implantation profiles for low energy electrons in metals: scaling properties, Z. Chaoui and N. Bouarissa	221 (2004) 114
substrates, S.S. Kim, J.H. Moon, BT. Lee, KS. Sohn, T.S. Kang and J.H. Je Strain relaxation behavior of the InGaN/GaN multiple quantum wells observed by trans-	221 (2004) 231	Analytic embedded-atom method approach to studying the surface segregation of Al–Mg alloys, H. Deng, W. Hu, X. Shu and B. Zhang	221 (2004) 408
mission electron microscopy, H.K. Cho, J.Y. Lee and J.Y. Leem	221 (2004) 288	Nanostructures	
Magnesium		Synthesis of sheathed carbon nanotube tips by the sol-gel technique, A. Brioude, P. Vin- cent, C. Journet, J.C. Plenet and S.T. Purcell	221 (2004) 4
Analytic embedded-atom method approach to studying the surface segregation of Al-Mg alloys, H. Deng, W. Hu, X. Shu and B. Zhang	221 (2004) 408	Self-assembled Au-Si alloy nanocones: synth- esis and electron field emission character- istics, Q. Wan, T.H. Wang and C.L. Lin	221 (2004) 38
Magnesium oxide		SERS studies on the ordered structure of the surface of polypyrrole nanotubules, J. He, W. Chen, N. Xu, L. Li, X. Li and G. Xue	221 (2004) 87
Surface morphology and interaction between water and MgO, CaO and SrO surfaces. Periodic HF and DFT calculations, W.S.		Use of biological nanoprobes for the character- ization of micropatterned surfaces obtained by ultraviolet laser lithography, A.C. Dun-	
Abdel Halim and A.S. Shalabi Magnetic measurement	221 (2004) 53	can, S. Lazare and Ch. Baquey Characterization of interfaces in nanoscale semiconductor devices by optimization of depth resolution in SIMS depth profiling,	221 (2004) 93
Ferromagnetism in (In, Mn)As alloy thin films grown by metalorganic vapor phase epi- taxy, A.J. Blattner and B.W. Wessels	221 (2004) 155	B.R. Chakraborty X-ray photoelectron spectroscopic studies of Al' stabilized t-ZrO ₂ of nanoparticles, S. Ram and A. Mondal	221 (2004) 143 221 (2004) 237
Magnetic measurements		A simple structure and fabrication of carbon- nanotube field emission display, Y.S. Choi, J.H. Kang, H.Y. Kim, B.G. Lee, C.G. Lee,	
Aqueous-based magnetite magnetic fluids stabi- lized by surface small micelles of oleolysar- cosine, X.Q. Xu, H. Shen, J.R. Xu and X.J. Li	221 (2004) 430	S.K. Kang, Y.W. Jin, J.W. Kim, J.E. Jung and J.M. Kim The influence of tip performance on scanning probe lithography, H. Zhou, Z. Li, A. Wu, J.	221 (2004) 370
Manganese		Zheng, J. Zhang and S. Wu	221 (2004) 402
Ferromagnetism in (In, Mn)As alloy thin films grown by metalorganic vapor phase epi-	221 (2004) 155	Neodynium Photocatalysis of neodymium ion modified	
taxy, A.J. Blattner and B.W. Wessels Metals	221 (2004) 155	TiO ₂ sol under visible light irradiation, Y. Xie and C. Yuan	221 (2004) 17
Implantation profiles for low energy electrons		Nickel	
in metals: scaling properties, Z. Chaoui and N. Bouarissa	221 (2004) 114	Surface strengthening pure copper by Ni-B coat- ing, S. Ziyuan, W. Deqing and D. Zhimin	221 (2004) 62
Molecular beam epitaxy		Structural analysis of NiO ultra-thin films epi- taxially grown on ultra-smooth sapphire	
In situ monitoring of the 2D-3D growth-mode transition in In _{0.3} Ga _{0.7} As/GaAs (0.0.1) by reflectance-difference spectroscopy, C.I.		substrates by synchrotron X-ray diffraction measurements, O. Sakata, MS. Yi, A. Matsuda, J. Liu, S. Sato, S. Akiba, A. Sasaki	
Medel-Ruiz, A. Lastras-Martínez, R.E. Bal-		and M. Yoshimoto	221 (2004) 450

Nitrides

Nitrogen

Optical properties

deposition, Y.S. Jung

Organic substances

- Plasma assisted nitridation of Ti-6Al-4V, V. Fouquet, L. Pichon, M. Drouet and A. Straboni
- Strain relaxation behavior of the InGaN/GaN multiple quantum wells observed by transmission electron microscopy, H.K. Cho, J.Y. Lee and J.Y. Leem

XPS and XAES studies of as grown and nitro-

gen incorporated tetrahedral amorphous

carbon films deposited by pulsed unfiltered

cathodic vacuum arc process, O.S. Panwar,

Y. Aparna, S.M. Shivaprasad, M.A. Khan,

B.S. Satyanarayana and R. Bhattacharyya

Solution grown PbS nanoparticle films, R.K.

The photoemissive effect of the ITO-Cs thin film, Z. Shouzhen, X. Baosen and L. Cui-

Study on texture evolution and properties of

Preparation and characterization of hydrophobic organic-inorganic composite thin films

Organo metallic vapour deposition

Ferromagnetism in (In, Mn)As alloy thin films

taxy, A.J. Blattner and B.W. Wessels

The surface oxidation of selected polymers using an atmospheric pressure air dielectric

Anderson and N.M.D. Brown

barrier discharge. Part I. G. Borcia, C.A.

grown by metalorganic vapor phase epi-

of PMMA/SiO₂/TiO₂ with low friction coefficient, G. Gu, Z. Zhang and H. Dang

silver thin films prepared by sputtering

Joshi, A. Kanjilal and H.K. Sehgal

221 (2004) 248

221 (2004) 288

221 (2004) 392

221 (2004) 43

221 (2004) 110

221 (2004) 281

221 (2004) 129

221 (2004) 155

- Synthesis of nanolayers hydroxo-(Sn,O,H,) and heteropoly-(H,PW,O,) compounds of hybrid-type on silica surfaces by successive ionic layer deposition method, V.P. Tolstoy, L.B. Gulina, G.S. Korotchenkov and V.I. Brynsari
- Microstructures of pulsed laser deposited Eu doped Y₂O₁ luminescent films on Si(0 0 1) substrates, S.S. Kim, J.H. Moon, B.-T. Lee, K.-S. Sohn, T.S. Kang and J.H. Je
- X-ray photoelectron spectroscopic studies of Al³ stabilized t-ZrO₂ of nanoparticles, S. Ram and A. Mondal
- Aqueous-based magnetite magnetic fluids stabilized by surface small micelles of oleolysarcosine, X.Q. Xu, H. Shen, J.R. Xu and X.J. Li
- Preparation and characterization of ZrO₂ thin film on sulfonated self-assembled monolayer of 3-mercaptopropyl trimethoxysilane, J. Wang, S. Yang, X. Liu, S. Ren, F. Guan and M. Chen
- Microstructural characteristics of Al₂O₃-based refractory containing ZrO₂ induced by CO₂ laser melting, A.H. Wang, W.Y. Wang, C.S. Xie, W.L. Song and D.W. Zeng
- Microstructure and electrical properties of iron oxide thin films deposited by spray pyrolysis, A.A. Akl
- Structural analysis of NiO ultra-thin films epitaxially grown on ultra-smooth sapphire substrates by synchrotron X-ray diffraction measurements, O. Sakata, M.-S. Yi, A. Matsuda, J. Liu, S. Sato, S. Akiba, A. Sasaki and M. Yoshimoto

Oxygen

- Measured stopping power for ¹⁶O ions in Al, Cu and Ag foils, X. Lu, T. Zheng, Z. Xia and D. Shen
- Oxygen passivation and reactivation of interface states introduced during Schottky diode fabrication on bulk n-type 6H-SiC, E. van Wyk and A.W.R. Leitch

Oxygen diamond

Palladium

The effect of Au and O implantation on the etch rate of CVD diamond, P.W. Leech, G.K. Reeves, A. Holland and M.C. Ridgway

221 (2004) 302

221 (2004) 197

221 (2004) 231

221 (2004) 237

221 (2004) 430

221 (2004) 272

221 (2004) 293

221 (2004) 319

221 (2004) 450

221 (2004) 10

221 (2004) 415

Oxide

Oxidation

- Interfacial reactions and microstructure of BaTiO₃ films prepared using fluoride precursor method, S. Fujihara, T. Schneller and R. Waser
- 221 (2004) 178

221 (2004) 203

The thermal stability and catalytic performance of Ce-Zr promoted Rh-Pd/γ-Al₂O₃ automotive catalysts, X. Wu, L. Xu and D. Weng 221 (2004) 375

Photochemistry		Y. Aparna, S.M. Shivaprasad, M.A. Khan, B.S. Satyanarayana and R. Bhattacharyya	221 (2004) 392
		Correlation of surface, mechanical and micro-	and (min) Jya
Photocatalysis of neodymium ion modified		properties of tetrahedral amorphous carbon	
TiO ₂ sol under visible light irradiation, Y.		films deposited under different magnetic	
Xie and C. Yuan	221 (2004) 17	confinement conditions, D.H.C. Chua,	
		K.B.K. Teo, T.H. Tsai, W.I. Milne, D.	
		Sheeja, B.K. Tay and D. Schneider	221 (2004) 455
Photoelectron spectroscopy		Investigations of interfaces formed between	
i notociection spectroscopy		bis-1,2-(triethoxysilyl)ethane (BTSE) and	
		aluminum after different Forest Product	
Femtosecond pulsed laser ablation and deposi-		Laboratory pre-treatment times, M. Teo,	
tion of thin films of polytetrafluoroethy-		J. Kim, P.C. Wong, K.C. Wong and	
lene, M. Womack, M. Vendan and P. Molian	221 (2004) 99	K.A.R. Mitchell	221 (2004) 340
Preparation and characterization of hydropho-			
bic organic-inorganic composite thin films		DI .	
of PMMA/SiO ₂ /TiO ₂ with low friction	221 (2001) 120	Plasma processing	
coefficient, G. Gu, Z. Zhang and H. Dang	221 (2004) 129		
Adsorption, initial growth and desorption		Valence electron structure analysis of crystal-	
kinetics of p-quaterphenyl on polycrystal-		line orientation in plasma-sprayed TiO2	
line gold surfaces, S. Müllegger, O. Stranik,	221 /2004) 194	coatings, Jm. Zhang and Kw. Xu	221 (2004) 1
E. Zojer and A. Winkler	221 (2004) 184	Optimization of the stabilized performance of	
Synthesis of nanolayers hydroxo-(Sn _x O _y H _z)		amorphous silicon solar cells deposited at	
and heteropoly-(H,PW,O ₂) compounds of		high growth rates by de-coupling of gas and	
hybrid-type on silica surfaces by successive ionic layer deposition method, V.P. Tolstoy,		superstrate temperatures, G. Ganguly, R.S.	
L.B. Gulina, G.S. Korotchenkov and V.I.		Oswald and D.E. Carlson	221 (2004) 13
Brynsari	221 (2004) 197	Plasma assisted nitridation of Ti-6Al-4V, V.	
The surface oxidation of selected polymers	221 (2004) 197	Fouquet, L. Pichon, M. Drouet and A.	
using an atmospheric pressure air dielectric		Straboni	221 (2004) 248
barrier discharge. Part I, G. Borcia, C.A.			
Anderson and N.M.D. Brown	221 (2004) 203	Polymers	
X-ray photoelectron spectroscopic studies of	221 (2007) 200	Polymers	
Al ³ stabilized t-ZrO ₂ of nanoparticles,			
S. Ram and A. Mondal	221 (2004) 237	SERS studies on the ordered structure of the	
Comparison of electrochemical behavior of	221 (2001) 201	surface of polypyrrole nanotubules, J. He,	
zirconium and zircaloy-4 implanted with		W. Chen, N. Xu, L. Li, X. Li and G. Xue	221 (2004) 87
Y and Ce ions, D.Q. Peng, X.D. Bai,		Femtosecond pulsed laser ablation and deposi-	
X.W. Chen, Q.G. Zhou, X.Y. Liu and		tion of thin films of polytetrafluoroethy-	
R.H. Yu	221 (2004) 259	lene, M. Womack, M. Vendan and P. Molian	221 (2004) 99
Preparation and characterization of ZrO2 thin		The surface oxidation of selected polymers	
film on sulfonated self-assembled mono-		using an atmospheric pressure air dielectric	
layer of 3-mercaptopropyl trimethoxysi-		barrier discharge. Part I, G. Borcia, C.A.	221 (2004) 202
lane, J. Wang, S. Yang, X. Liu, S. Ren, F.		Anderson and N.M.D. Brown	221 (2004) 203
Guan and M. Chen	221 (2004) 272	Field-effect mobilities of polyhedral oligomeric	
Investigations of interfaces formed between		silsesquioxanes anchored semiconducting	221 (2004) 358
bis-1,2-(triethoxysilyl)ethane (BTSE) and		polymers, W.W. Zhu, S. Xiao and I. Shih Adhesive and morphological characteristics of	221 (2004) 338
aluminum after different Forest Product		surface chemically modified polytetrafluor-	
Laboratory pre-treatment times, M. Teo,		oethylene films, B. Hopp, N. Kresz, J.	
J. Kim, P.C. Wong, K.C. Wong and		Kokavecz, T. Smausz, H. Schieferdecker,	
K.A.R. Mitchell	221 (2004) 340	A. Döring, O. Marti and Z. Bor	221 (2004) 437
Femtosecond pulsed laser ablation of GaAs,		Pulsed slow-positron beam for polymer films.	221 (2009) 437
T.W. Trelenberg, L.N. Dinh, C.K. Saw,		C. He, E. Hamada, T. Suzuki, T. Kumaki, H.	
B.C. Stuart and M. Balooch	221 (2004) 364	Kobayashi, K. Kondo and Y. Ito	221 (2004) 444
The thermal stability and catalytic performance		Robayasiii, R. Robido and T. Ito	221 (2004) 444
of Ce-Zr promoted Rh-Pd/γ-Al ₂ O ₃ automo-			
tive catalysts, X. Wu, L. Xu and D. Weng	221 (2004) 375	Position annihilation	
XPS and XAES studies of as grown and nitro-			
gen incorporated tetrahedral amorphous		Pulsed slow-positron beam for polymer films,	
carbon films deposited by pulsed unfiltered		C. He, E. Hamada, T. Suzuki, T. Kumaki, H.	
cathodic vacuum arc process, O.S. Panwar,		Kobayashi, K. Kondo and Y. Ito	221 (2004) 444

perature-scanning tunnelling spectroscopy (HT-STS), Z. Klusek, S. Pierzgalski and S.

Datta

Pulsed laser deposition		Scanning tunneling spectroscopy	
Femtosecond pulsed laser ablation and deposition of thin films of polytetrafluoroethylene, M. Womack, M. Vendan and P. Molian Microstructures of pulsed laser deposited Eudoped Y ₂ O ₃ luminescent films on Si(0 0 1) substrates, S.S. Kim, J.H. Moon, BT. Lee, KS. Sohn, T.S. Kang and J.H. Je	221 (2004) 99 221 (2004) 231	Insulator-metal transition on heavily reduced TiO ₂ (1 1 0) surface studied by high tem- perature-scanning tunnelling spectroscopy (HT-STS), Z. Klusek, S. Pierzgalski and S. Datta	221 (2004) 120
0		Schottky barriers	
Quantum effects Strain relaxation behavior of the InGaN/GaN multiple quantum wells observed by transmission electron microscopy, H.K. Cho, J.Y. Lee and J.Y. Leem	221 (2004) 288	Oxygen passivation and reactivation of inter- face states introduced during Schottky diode fabrication on bulk n-type 6H–SiC, E. van Wyk and A.W.R. Leitch	221 (2004) 415
Raman scattering		Secondary ion mass spectroscopy	
SERS studies on the ordered structure of the surface of polypyrrole nanotubules, J. He, W. Chen, N. Xu, L. Li, X. Li and G. Xue Modifying single-crystalline silicon by femto-	221 (2004) 87	Fabrication and properties of As-doped ZnO films grown on GaAs(0 0 1) substrates by radio frequency (rf) magnetron sputtering, W. Lee, DK. Hwang, MC. Jeong, M. Lee, MS. Oh, WK. Choi and JM.	
second laser pulses: an analysis by micro Raman spectroscopy, scanning laser micro- scopy and atomic force microscopy, J. Bonse, KW. Brzezinka and A.J. Meixner	221 (2004) 215	Myoung Characterization of interfaces in nanoscale semiconductor devices by optimization of depth resolution in SIMS depth profiling,	221 (2004) 32
The effect of Au and O implantation on the etch rate of CVD diamond, P.W. Leech, G.K. Reeves, A. Holland and M.C. Ridgway Correlation of surface, mechanical and microproperties of tetrahedral amorphous carbon films deposited under different magnetic confinement conditions, D.H.C. Chua, K.B.K. Teo, T.H. Tsai, W.I. Milne, D.	221 (2004) 302	B.R. Chakraborty Investigations of interfaces formed between bis-1,2-(triethoxysilyl)ethane (BTSE) and aluminum after different Forest Product Laboratory pre-treatment times, M. Teo, J. Kim, P.C. Wong, K.C. Wong and K.A.R. Mitchell	221 (2004) 143 221 (2004) 340
Sheeja, B.K. Tay and D. Schneider	221 (2004) 455	Semiconductors	
Rhodium The thermal stability and catalytic performance of Ce-Zr promoted Rh-Pd/ γ -Al ₂ O ₃ auto-		Field-effect mobilities of polyhedral oligo- meric silsesquioxanes anchored semicon- ducting polymers, W.W. Zhu, S. Xiao and I. Shih	221 (2004) 358
motive catalysts, X. Wu, L. Xu and D. Weng	221 (2004) 375	Silicon	
Scanning probe microscopy		Optimization of the stabilized performance of amorphous silicon solar cells deposited at	
The influence of tip performance on scanning probe lithography, H. Zhou, Z. Li, A. Wu, J. Zheng, J. Zhang and S. Wu	221 (2004) 402	high growth rates by de-coupling of gas and superstrate temperatures, G. Ganguly, R.S. Oswald and D.E. Carlson Self-assembled Au-Si alloy nanocones: synth- esis and electron field emission character-	221 (2004) 13
Scanning tunneling microscopy Insulator-metal transition on heavily reduced TiO ₂ (110) surface studied by high tem-		istics, Q. Wan, T.H. Wang and C.L. Lin Characterization of interfaces in nanoscale semiconductor devices by optimization of depth resolution in SIMS depth profiling,	221 (2004) 38
nerature-scanning tunnelling enectroscony		B.P. Chakrahorty	221 (2004) 142

221 (2004) 120

B.R. Chakraborty

Removal of Si(1 1 1) wafer surface etch pits

generated in ammonia-peroxide clean step,

221 (2004) 143

Z. Xiao, M. Xu, T. Ohgi, K. Onishi and D. Fujita Modifying single-crystalline silicon by femto-	221 (2004) 160	Influence of dc magnetron sputtering para- meters on surface morphology of indium tin oxide thin films, Y.S. Jung, D.W. Lee	
second laser pulses: an analysis by micro		and D.Y. Jeon	221 (2004) 136
Raman spectroscopy, scanning laser micro-		Study on texture evolution and properties of	
scopy and atomic force microscopy, J.		silver thin films prepared by sputtering	
Bonse, KW. Brzezinka and A.J. Meixner	221 (2004) 215	deposition, Y.S. Jung	221 (2004) 281
Microstructures of pulsed laser deposited Eu			
doped Y ₂ O ₃ luminescent films on Si(0 0 1)		Strontium oxides	
substrates, S.S. Kim, J.H. Moon, BT. Lee, KS. Sohn, T.S. Kang and J.H. Je	221 (2004) 231		
K3. 30mi, 1.3. Kang and 7.11. 70	221 (2007) 231	Surface morphology and interaction between	
C:1:		water and MgO, CaO and SrO surfaces.	
Silicon carbide		Periodic HF and DFT calculations, W.S. Abdel Halim and A.S. Shalabi	221 (2004) 53
Oxygen passivation and reactivation of inter-		AND Hami and A.S. Shalath	221 (2009) 23
face states introduced during Schottky		C. Jakidan	
diode fabrication on bulk n-type 6H-SiC,		Sulphides	
E. van Wyk and A.W.R. Leitch	221 (2004) 415	Solution grown PbS nanoparticle films, R.K.	
		Joshi, A. Kanjilal and H.K. Sehgal	221 (2004) 43
Silicon oxide			
		Surface morphology	
Wettability alteration by CTAB adsorption at sur-		Surjuce morphology	
faces of SiO ₂ film or silica gel powder and	20.7 (20.5)	Influence of do monaton controller need	
mimic oil recovery, Z. Bi, W. Liao and L. Qi	221 (2004) 25	Influence of dc magnetron sputtering para- meters on surface morphology of indium	
Preparation and characterization of hydropho- bic organic-inorganic composite thin films		tin oxide thin films, Y.S. Jung, D.W. Lee	
of PMMA/SiO ₂ /TiO ₂ with low friction		and D.Y. Jeon	221 (2004) 136
coefficient, G. Gu, Z. Zhang and H. Dang	221 (2004) 129		
		Surface roughness	
Silane			
Dilling		Removal of Si(1 1 1) wafer surface etch pits	
Investigations of interfaces formed between		generated in ammonia-peroxide clean step,	
bis-1,2-(triethoxysilyl)ethane (BTSE) and		Z. Xiao, M. Xu, T. Ohgi, K. Onishi and D.	221 (2004) 160
aluminum after different Forest Product		Fujita	221 (2004) 100
Laboratory pre-treatment times, M. Teo,		771	
J. Kim, P.C. Wong, K.C. Wong and K.A.R. Mitchell	221 (2004) 340	Thermal deposition	
K.A.R. Mitchell	221 (2004) 340		
6.1		Adsorption, initial growth and desorption	
Silver		kinetics of p-quaterphenyl on polycrystal-	
Measured stopping power for ¹⁶ O ions in Al, Cu		line gold surfaces, S. Müllegger, O. Stranik, E. Zojer and A. Winkler	221 (2004) 184
and Ag foils, X. Lu, T. Zheng, Z. Xia and D.		a. Zojet alki A. Willkiel	221 (200P4) 104
Shen	221 (2004) 10	771 : 61	
Study on texture evolution and properties of		Thin films	
silver thin films prepared by sputtering			
deposition, Y.S. Jung	221 (2004) 281	Valence electron structure analysis of crystal-	
Electrochemical behaviour of silver in borate		line orientation in plasma-sprayed TiO2	221 (2004)
buffer solutions, A.M. Zaky, F.H. Assaf,	221 (2004) 240	coatings, Jm. Zhang and Kw. Xu Optimization of the stabilized performance of	221 (2004) 1
S.S. Abd El Rehim and B.M. Mohamed	221 (2004) 349	amorphous silicon solar cells deposited at	
		high growth rates by de-coupling of gas and	
Sputter deposition		superstrate temperatures, G. Ganguly, R.S.	
		Oswald and D.E. Carlson	221 (2004) 13
Fabrication and properties of As-doped ZnO		Fabrication and properties of As-doped ZnO	
films grown on GaAs(0 0 1) substrates by		films grown on GaAs(0 0 1) substrates by	
radio frequency (rf) magnetron sputtering, W. Lee, DK. Hwang, MC. Jeong, M.		radio frequency (rf) magnetron sputtering, W. Lee, DK. Hwang, MC. Jeong, M.	
Lee, MS. Oh, WK. Choi and JM.		Lee, MS. Oh, WK. Choi and JM.	
Myoung	221 (2004) 32	Myoung	221 (2004) 32

Self-assembled Au-Si alloy nanocones: synth- esis and electron field emission character- istics, Q. Wan, T.H. Wang and C.L. Lin Femtosecond pulsed laser ablation and deposi-	221 (2004) 38	ionic layer deposition method, V.P. Tolstoy, L.B. Gulina, G.S. Korotchenkov and V.I. Brynsari	221 (2004) 197
tion of thin films of polytetrafluoroethy- lene, M. Womack, M. Vendan and P. Molian	221 (2004) 99	Titanium	
The photoemissive effect of the ITO-Cs thin film, Z. Shouzhen, X. Baosen and L. Cuiguo Influence of dc magnetron sputtering parameters on surface morphology of indium tin oxide thin films, Y.S. Jung, D.W. Lee	221 (2004) 110	Interfacial reactions and microstructure of BaTiO ₃ films prepared using fluoride precursor method, S. Fujihara, T. Schneller and R. Waser	221 (2004) 178
and D.Y. Jeon Ferromagnetism in (In, Mn)As alloy thin films grown by metalorganic vapor phase epi-	221 (2004) 136	Plasma assisted nitridation of Ti-6Al-4V, V. Fouquet, L. Pichon, M. Drouet and A. Straboni	221 (2004) 248
taxy, A.J. Blattner and B.W. Wessels Interfacial reactions and microstructure of	221 (2004) 155	Titanium oxide	
BaTiO ₃ films prepared using fluoride pre- cursor method, S. Fujihara, T. Schneller and R. Waser Adsorption, initial growth and desorption kinetics of p-quaterphenyl on polycrystal-	221 (2004) 178	Valence electron structure analysis of crystal- line orientation in plasma-sprayed TiO ₂ coatings, Jm. Zhang and Kw. Xu Photocatalysis of neodymium ion modified	221 (2004) 1
line gold surfaces, S. Müllegger, O. Stranik, E. Zojer and A. Winkler Microstructures of pulsed laser deposited Eu- doped Y ₂ O ₃ luminescent films on Si(0 0 1) substrates, S.S. Kim, J.H. Moon, BT. Lee,	221 (2004) 184	TiO ₂ sol under visible light irradiation, Y. Xie and C. Yuan Insulator-metal transition on heavily reduced TiO ₂ (110) surface studied by high tem- perature-scanning tunnelling spectroscopy	221 (2004) 17
KS. Sohn, T.S. Kang and J.H. Je Study on texture evolution and properties of	221 (2004) 231	(HT-STS), Z. Klusek, S. Pierzgalski and S. Datta	221 (2004) 120
silver thin films prepared by sputtering deposition, Y.S. Jung Field-effect mobilities of polyhedral oligomeric	221 (2004) 281	Preparation and characterization of hydropho- bic organic-inorganic composite thin films of PMMA/SiO ₂ /TiO ₂ with low friction	
silsesquioxanes anchored semiconducting polymers, W.W. Zhu, S. Xiao and I. Shih	221 (2004) 358	coefficient, G. Gu, Z. Zhang and H. Dang	221 (2004) 129
XPS and XAES studies of as grown and nitro- gen incorporated tetrahedral amorphous carbon films deposited by pulsed unfiltered		Trobology Preparation and characterization of hydropho-	
cathodic vacuum arc process, O.S. Panwar, Y. Aparna, S.M. Shivaprasad, M.A. Khan, B.S. Satyanarayana and R. Bhattacharyya	221 (2004) 392	bic organic-inorganic composite thin films of PMMA/SiO ₂ /TiO ₂ with low friction	***
Pulsed slow-positron beam for polymer films, C. He, E. Hamada, T. Suzuki, T. Kumaki, H. Kobayashi, K. Kondo and Y. Ito	221 (2004) 444	coefficient, G. Gu, Z. Zhang and H. Dang	221 (2004) 129
Structural analysis of NiO ultra-thin films epi- taxially grown on ultra-smooth sapphire		Vanadium	
substrates by synchrotron X-ray diffraction measurements, O. Sakata, MS. Yi, A. Matsuda, J. Liu, S. Sato, S. Akiba, A. Sasaki		Plasma assisted nitridation of Ti-6Al-4V, V. Fou- quet, L. Pichon, M. Drouet and A. Straboni	221 (2004) 248
and M. Yoshimoto Correlation of surface, mechanical and micro-	221 (2004) 450	Water	
properties of tetrahedral amorphous carbon films deposited under different magnetic confinement conditions, D.H.C. Chua, K.B.K. Teo, T.H. Tsai, W.I. Milne, D.		Surface morphology and interaction between water and MgO, CaO and SrO surfaces. Periodic HF and DFT calculations, W.S.	221 - 2200 4 52
Sheeja, B.K. Tay and D. Schneider	221 (2004) 455	Abdel Halim and A.S. Shalabi	221 (2004) 53
Tin		X-ray diffraction	
Synthesis of nanolayers hydroxo-(Sn,O,H,) and heteropoly-(H,PW,O) compounds of hybrid-type on silica surfaces by successive		Photocatalysis of neodymium ion modified TiO ₂ sol under visible light irradiation, Y. Xie and C. Yuan	221 (2004) 17

Fabrication and properties of As-doped ZnO		Microstructure and electrical properties of iron	
films grown on GaAs(0 0 1) substrates by		oxide thin films deposited by spray pyro-	
radio frequency (rf) magnetron sputtering,		lysis, A.A. Akl	221 (2004) 319
W. Lee, DK. Hwang, MC. Jeong, M.		Electrochemical behaviour of silver in borate	
Lee, MS. Oh, WK. Choi and JM.		buffer solutions, A.M. Zaky, F.H. Assaf,	
Myoung	221 (2004) 32	S.S. Abd El Rehim and B.M. Mohamed	221 (2004) 349
Self-assembled Au-Si alloy nanocones: synth-		Femtosecond pulsed laser ablation of GaAs,	
esis and electron field emission character- istics, Q. Wan, T.H. Wang and C.L. Lin	221 (2004) 38	T.W. Trelenberg, L.N. Dinh, C.K. Saw, B.C. Stuart and M. Balooch	221 /2004 277
Solution grown PbS nanoparticle films, R.K.	221 (2004) 38	The thermal stability and catalytic performance	221 (2004) 364
Joshi, A. Kanjilal and H.K. Sehgal	221 (2004) 43	of Ce-Zr promoted Rh-Pd/γ-Al ₂ O ₃ automo-	
Surface strengthening pure copper by Ni-B	22. (2007) 42	tive catalysts, X. Wu, L. Xu and D.	
coating, S. Ziyuan, W. Deqing and D. Zhi-		Weng	221 (2004) 375
min	221 (2004) 62	Structural analysis of NiO ultra-thin films epi-	
SERS studies on the ordered structure of the		taxially grown on ultra-smooth sapphire	
surface of polypyrrole nanotubules, J. He,		substrates by synchrotron X-ray diffraction	
W. Chen, N. Xu, L. Li, X. Li and G. Xue	221 (2004) 87	measurements, O. Sakata, MS. Yi, A.	
Femtosecond pulsed laser ablation and deposi-		Matsuda, J. Liu, S. Sato, S. Akiba, A. Sasaki	***
tion of thin films of polytetrafluoroethy- lene, M. Womack, M. Vendan and P. Molian	221 (2004) 00	and M. Yoshimoto	221 (2004) 450
Preparation and characterization of hydropho-	221 (2004) 99		
bic organic-inorganic composite thin films		X-ray scattering	
of PMMA/SiO ₂ /TiO ₂ with low friction			
coefficient, G. Gu, Z. Zhang and H. Dang	221 (2004) 129	Microstructures of pulsed laser deposited Eu	
Influence of dc magnetron sputtering para-		doped Y ₂ O ₃ luminescent films on Si(0 0 1)	
meters on surface morphology of indium		substrates, S.S. Kim, J.H. Moon, BT. Lee,	
tin oxide thin films, Y.S. Jung, D.W. Lee		KS. Sohn, T.S. Kang and J.H. Je	221 (2004) 231
and D.Y. Jeon	221 (2004) 136		
Ferromagnetism in (In, Mn)As alloy thin films		**	
grown by metalorganic vapor phase epi-	221 (2004) 155	X-ray spectroscopy	
taxy, A.J. Blattner and B.W. Wessels Interfacial reactions and microstructure of	221 (2004) 155		
BaTiO ₃ films prepared using fluoride pre-		Strain relaxation behavior of the InGaN/GaN	
cursor method, S. Fujihara, T. Schneller and		multiple quantum wells observed by trans-	
R. Waser	221 (2004) 178	mission electron microscopy, H.K. Cho,	221 (2004) 200
Synthesis of nanolayers hydroxo-(Sn,O,H.)	()	J.Y. Lee and J.Y. Leem Microstructural characteristics of Al ₂ O ₃ -based	221 (2004) 288
and heteropoly-(H,PW,O.) compounds of		refractory containing ZrO ₂ induced by CO ₂	
hybrid-type on silica surfaces by successive		laser melting, A.H. Wang, W.Y. Wang, C.S.	
ionic layer deposition method, V.P. Tolstoy,		Xie, W.L. Song and D.W. Zeng	221 (2004) 293
L.B. Gulina, G.S. Korotchenkov and V.I.			
Brynsari	221 (2004) 197		
X-ray photoelectron spectroscopic studies of Al ³ stabilized t-ZrO ₂ of nanoparticles,		Yttrium	
S. Ram and A. Mondal	221 (2004) 237		
Plasma assisted nitridation of Ti-6Al-4V, V.	221 (2004) 237	Microstructures of pulsed laser deposited Eu	
Fouquet, L. Pichon, M. Drouet and A.		doped Y ₂ O ₃ luminescent films on Si(0 0 1)	
Straboni	221 (2004) 248	substrates, S.S. Kim, J.H. Moon, BT. Lee,	221 -2001 221
Preparation and characterization of ZrO2 thin		KS. Sohn, T.S. Kang and J.H. Je	221 (2004) 231
film on sulfonated self-assembled mono-		Comparison of electrochemical behavior of zirconium and zircaloy-4 implanted with	
layer of 3-mercaptopropyl trimethoxysi-		Y and Ce ions, D.Q. Peng, X.D. Bai,	
lane, J. Wang, S. Yang, X. Liu, S. Ren, F.		X.W. Chen, Q.G. Zhou, X.Y. Liu and	
Guan and M. Chen	221 (2004) 272	R.H. Yu	221 (2004) 259
Study on texture evolution and properties of silver thin films prepared by sputtering			
deposition, Y.S. Jung	221 (2004) 281		
Microstructural characteristics of Al ₂ O ₃ -based	201 (2004) 201	Zinc oxide	
refractory containing ZrO ₂ induced by			
CO ₂ laser melting, A.H. Wang, W.Y.		Fabrication and properties of As-doped ZnO	
Wang, C.S. Xie, W.L. Song and D.W.		films grown on GaAs(0 0 1) substrates by	
Zeng	221 (2004) 293	radio frequency (rf) magnetron sputtering,	
		W. Lee, DK. Hwang, MC. Jeong, M.	

Lee, M.-S. Oh, W.-K. Choi and J.-M. layer of 3-mercaptopropyl trimethoxysi-221 (2004) 32 lane, J. Wang, S. Yang, X. Liu, S. Ren, F. Myoung 221 (2004) 272 Guan and M. Chen Microstructural characteristics of Al₂O₃-Zirconium based refractory containing ZrO2 induced by CO2 laser melting, A.H. Wang, W.Y. X-ray photoelectron spectroscopic studies of Al³⁺ stabilized t-ZrO₂ of nanoparticles, Wang, C.S. Xie, W.L. Song and D.W. 221 (2004) 293 S. Ram and A. Mondal 221 (2004) 237 The thermal stability and catalytic performance of Ce-Zr promoted Rh-Pd/y-Al2O3 automo-Preparation and characterization of ZrO2 thin film on sulfonated self-assembled monotive catalysts, X. Wu, L. Xu and D. Weng 221 (2004) 375

